	Cluster: Key Ideas and Details		
	CCR Anchor Standard #1 Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.		
	Grades 9-10	Grades 11-12	
RST 9-10.1 Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.		RST 11-12 Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account.	
	Essential Skills and Knowledge	Essential Skills and Knowledge	
•	Demonstrate the behaviors of a strategic reader when reading a science or technical text.	Demonstrate the behaviors of a strategic reader when reading science and technical texts.	
•	Analyze text clues that affect meaning.	Identify the evidence in the text that supports the author's purpose.	
•	Identify evidence that supports the author's purpose.	Evaluate available evidence for thoroughness, completeness, accuracy and relevance.	
•	Evaluate textual evidence for completeness and relevance.		
•	Participate actively and appropriately in discussions about informational text.	 Analyze evidence and explain any inconsistencies or ambiguities between or among evidence presented in text. 	
•	Interpret, explain, and apply appropriate academic and/or domain-specific vocabulary when responding and discussing informational text. (See CCSS L. 9-10.4 & L.9-10.6)	 Participate actively and appropriately in discussions about informational text. Interpret, explain, and apply appropriate academic and/or domain-specific vocabulary when responding and discussing informational text. (See CCSS L.11- 	
•	Use knowledge of language and its conventions when speaking and writing. (See CCSS L.9-10.1)	12.4 & L.11-12.6)	
•	See also MD SLM 2.0 & 3.0, as needed	Use knowledge of language and its conventions when speaking and writing. (See CCSS L.11-12.1)	
		See also MD SLM 2.0 & 3.0, as needed.	

Grades 9-10	Grades 11-12
RST. 9-10.2 Determine the central ideas or conclusions of a text; trace the text's explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.	RST.11-12.2 Determine the central ideas or conclusions of a text; trace the text's explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.
Essential Skills and Knowledge	Essential Skills and Knowledge
 Analyze the key ideas that contribute to the development of a complex process, phenomenon, or concept presented in the text. 	Analyze ideas, processes, and/or information that support the development of the central idea(s) or conclusion of a science or technical text.
Synthesize evidence from the text to determine the central idea or conclusion.	Synthesize evidence from the text to determine the central idea or conclusion.
 Objectively summarize the scientific or technical text, including the appropriate key ideas, processes, and/or phenomenon. 	Summarize the information presented in the text by accurately paraphrasing the key ideas and details that support the concepts, processes or information.
CCR Anchor Standard #3 Analyze how and why individuals, events, or ideas develop a	and interact over the course of a text.
Grades 9-10	Grades 11-12
RST.9-10.3 Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.	RST.11-12.3 Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.
Essential Skills and Knowledge	Essential Skills and Knowledge
Analyze and explain the text structure and features of a complex multi-step scientific or technical procedure and how it contributes to the purpose of the text.	Analyze the text structure of a scientific or technical procedure and how it contributes to meaning and or/purpose.
Evaluate how the use of domain specific vocabulary, materials, specific scientific tools, or equipment in the text that contributes to the procedure.	Analyze the procedure, including the descriptive details (quantities, units of measurement) and use of specific materials (e.g., materials/chemicals, scientific technicals).
 Identify special directions or exceptions in the text important/critical to the procedure. 	tools and equipment), and sequence of events important to effective implementation.
	Implement procedure or technical task.
• Implement the procedure.	Compare experimental results to the predicted outcomes.
	Analyze results to support predicted outcomes or to identify possible sources of

Cluster: Craft and Structure			
CCR Anchor Standard #4 Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone.			
Grades 9-10	Grades 11-12		
RST. 9-10.4 Determine the meaning of symbols, key terms, and other domain specificwords and phrases as they are used in a specific scientific or technical context relevant to grades 9-10 texts and topics.	RST.11-12.4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics.		
Essential Skills and Knowledge	Essential Skills and Knowledge		
Analyze the meaning, use, and effect of scientific and technical vocabulary, symbols, and other domain specific-words or phrases as it contributes to comprehension of text.	Analyze the meaning, use, and effect of science and technical vocabulary, symbols, and other domain specific-words or phrases as it contributes to the meaning of the text.		
Use common grade appropriate Greek and Latin affixes and roots as clues to the meaning of a word. (See CCSS L.8.4.b)	 Interpret, explain, and apply appropriate academic and/or domain-specific vocabulary when responding and discussing science or technical text. (See CCSS L 9-10.4 & L.9-10.6) 		
Interpret, explain, and apply appropriate academic and/or domain-specific			
vocabulary when responding and discussing informational text. (See 9-10 CCSS L.4.& L.6).			
CCR Anchor Standard #5 Analyze the structure of texts, including how specific sentences, paragraphs, and larger portions of the text (e.g., a section, chapter, scene, or stanza) relate to each other and the whole.			
Grades 9-10	Grades 11-12		
RST.9-10.5 Analyze the structure of the relationships among concepts in a text, including relationships among key terms (e.g., force, frictions, reaction force, energy).	RST.11-12.5 Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.		
Essential Skills and Knowledge	Essential Skills and Knowledge		
 Identify and analyze the text structure used to organize science or technical text (e.g., sequentially/chronologically, main ideas and supporting details, cause and effect, compare and contrast, problem and solution). 	Analyze the relationship among certain major sections, categories, or hierarchies within the text as a whole.		
Apply an understanding of text features in science or technical text (e.g., print features, graphic aids, informational aids, online features, etc.) to facilitate an understanding of the text.	Analyze and explain how an author deliberately chooses and uses words and text structures to develop and refine ideas or information. Fundain how the relationship among the major continuous categories or hierarchies.		
Determine the author's purpose for the identified text. (See CCSS RI.8.6)	Explain how the relationship among the major sections, categories, or hierarchies contributes to the development of the idea or concept presented within the text.		

 Determine the relationship among certain major sections within the text as a whole. Draw conclusions about how the relationship among the major sections adds to the growth of an idea within the whole text. Evaluate the effectiveness of the structure in presenting the information. 	
CCR Anchor Standard #6 Assess how point of view or purpose shapes the content and	
Grades 9-10	Grades 11-12
RST.9-10.6 Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, defining the question the author seeks to address.	RST.11-12.6 Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.
Essential Skills and Knowledge	Essential Skills and Knowledge
Identify and explain the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text. Analysis and explain the attractive of an explanation procedure are explanation.	Determine and examine the relationships between and among ideas throughout the text and how they contribute to meaning
 Analyze and explain the structure of an explanation, procedure, or experiment and how it contributes to meaning and/or purpose of the text. 	Evaluate the text for completeness and relevance. Applies and applies any integral integral in the property of the prope
Determine and examine the relationships between and among ideas throughout the text and how they contribute to meaning.	 Analyze and explain any inconsistencies, ambiguities, or gaps among information presented in text.
Evaluate the effectiveness of the text to address the author's purpose.	

Cluster: Integration of Knowledge and Ideas	
CCR Anchor Standard #7 Integrate and evaluate content presented in diverse formats and media, including visually and quantitatively, as well as in words.	
Grades 9-10	Grades 11-12
RST.9-10.7 Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or a chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.	RST.11-12.7 Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, as well as in words) in order to address a question or solve a problem.
Essential Skills and Knowledge	Essential Skills and Knowledge
 Translate quantitative or technical information in text to a visual Identify the author's purpose. 	Analyze print, non-print and digital text for explicit details that are relevant to addressing a question or solving a problem. (See also MD Standard SLM 4.0)
Identify the key numerical, scientific, or technical terms within the text that describes the quantitative or technical information (e.g., units of measurement).	Compare, draw conclusions, and connect significant details and ideas between and among different media formats.
Identify and analyze cue words and phrases that describe the informational relationships expressed (less than, greater than, increases, decreases, equal to).	Evaluate information from multiple sources of print, non-print, and digital texts, for accuracy, relevance, reliability and validity.
Choose, construct, and complete a graphic organizer (chart, table, graph, and flow chart) that most appropriately visually represents the relationship or processes described in the text and the author's purpose.	 Integrate information from multiple sources of print, non-print, and digital texts to address a question or solve a problem. (See CCSS W.11-12.6, W.11-12.7, W.11- 12.8, W.11-12.9b, SL.11-12.2)
Translate information visually or mathematically into words. • Identify the author's purpose.	
• Identify the mathematical relationships represented by operational symbols (e.g., +,-,X), mathematic symbols (e.g., (), =,<,>), and/or technology/flowchart symbols (e.g., (),	
Analyze the author's use of numbers and symbols to represent key ideas, concepts, or processes.	
Summarize the information expressed visually by the author into text.	

Grades 11-12 RST.11-12.8 Assess the extent to which the reasoning and evidence in a text supports the author's claim or a recommendation for solving a scientific or technical problem. Essential Skills and Knowledge Compare and analyze information from sources to identify common areas of support or contradiction with science text.
supports the author's claim or a recommendation for solving a scientific or technical problem. Essential Skills and Knowledge Compare and analyze information from sources to identify common areas of support or contradiction with science text.
Compare and analyze information from sources to identify common areas of support or contradiction with science text.
support or contradiction with science text.
 Seek information from other sources to resolve conflicting information as needed. Synthesize information to support understanding of text. See also MD Standard SLM 4.0 ics in order to build knowledge or to compare the approaches the authors take.
Grades 11-12
RST.11-12.9 Synthesize information from a range of sources (e.g., text, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible
Essential Skills and Knowledge
 Identify the main points and key details in a science or technical text to those found in other sources (e.g., text, experiments, and simulations) on the same topic. Compare, contrast, and analyze information from the different sources to identify common areas of support and/or contradiction Seek information from other sources to resolve conflicting information. Synthesize information to support understanding of text.

Cluster: Range of Reading and Level of Text Complexity	
CCR Anchor Standard #10 Read and comprehend complex literary and informational texts independently and proficiently.	
Grades 9-10	Grades 11-12
RST.9-10.10 By the end of grade 10, read and comprehend Science/technical texts in the grades 9-10 text complexity band independently and proficiently.	RST.11-12.10 By the end of grade 12, read and comprehend Science/technical texts in the grades 11-12 CCR text complexity band independently and proficiently.
Essential Skills and Knowledge	Essential Skills and Knowledge
 Demonstrate understanding of a wide range of sufficiently complex science and technical nonfiction. (See also MD SLM 6.0) Comprehend texts of steadily increasing complexity, with scaffolding as needed. As an emerging adult reader, set personal reading goals to self select and explore texts of different disciplines and increasing complexity. Participate actively and appropriately in discussions about informational text. Interpret, explain, and apply appropriate academic and/or domain-specific vocabulary when responding and discussing informational text. (See 9-10 CCSS L.4 & L.6) Use knowledge of language and its conventions when speaking and writing.(See 9-10 CCSS L.1) 	 Demonstrate understanding of a wide range of sufficiently complex science and technical nonfiction. (See also MD SLM 6.0) Comprehend texts of steadily increasing complexity. As an emerging adult reader, set personal reading goals to self select and explore texts of different genres and increasing complexity. Participate actively and appropriately in discussions about informational text. Interpret, explain, and apply appropriate academic and/or domain-specific vocabulary when responding and discussing informational text. (See 9-10 CCSS L.4 & L.6) Use knowledge of language and its conventions when speaking and writing. (See 9-10 CCSS L.1)